

ENERGY-CONSERVING APPARATUS AND OPERATING SYSTEM HAVING MULTIPLE  
OPERATING FUNCTIONS

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ABSTRACT

A computer power supply, motherboard, and computer system each is adapted for providing multiple operating functions. Of particular importance is an energy-conserving operating function that eliminates  
10 any unnecessary energy waste and annoying noise, while allowing information processing to continue, as opposed to (1) a conventional operating state that inevitably incurs substantial energy waste and annoying noise, and to (2) a conventional suspend state that idles and deactivates information processing essentially. Of another importance is an operating system for selectively executing a power-down process to an energy-conserving operating function and a power-up process to a full operating function. The combination of the  
15 computer power supply, the motherboard, the computer system, and the operating system provides the following distinct exemplary advantages: (1) greatly extending the battery life of a notebook or laptop computer, as a result of eliminating unnecessary energy waste during operation, (2) eliminating any annoying noise as a result of substantial energy conservation that in turn eliminates the need of cooling, and (3) affording an independent operating function to allow a user to instantly, energy-conservatively, and  
20 noise-freely play an audio disc in a CD drive without booting up the computer system.